

Response dated August 4, 2005

Reply to Office action mailed May 6, 2005

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 - 6 (Cancelled)

7. (Original) A compound selected from the group consisting of:

- ethyl trans-4-[[2-[(4-aminocyclohexyl)amino]-1H-purin-6-yl]amino]benzoate dihydrochloride;
- trans-N2-(4-aminocyclohexyl)-N6-(2-aminoethyl)-1H-purine-2,6-diamine trihydrochloride;
- trans-N2-(4-aminocyclohexyl)-N6-propyl-1H-purine-2,6-diamine dihydrochloride;
- trans-N2-(4-aminocyclohexyl)-N6-(phenylmethyl)-1H-purine-2,6-diamine dihydrochloride;
- trans-N2-(4-aminocyclohexyl)-N6-(4-methoxyphenyl)-1H-purine-2,6-diamine dihydrochloride;
- trans-N2-(4-aminocyclohexyl)-N6-[4-(trifluoromethoxy)phenyl]-1H-purine-2,6-diamine dihydrochloride;
- trans-N2-(4-aminocyclohexyl)-N6-[1-(phenylmethyl)-4-piperidinyl]-1H-purine-2,6-diamine trihydrochloride;
- trans-N2-(4-aminocyclohexyl)-N6-[2-[(phenylmethyl)amino]ethyl]-1H-purine-2,6-diamine trihydrochloride;
- trans-N2-(4-aminocyclohexyl)-N6-[(3,4-dimethoxyphenyl)methyl]-1H-purine-2,6-diamine;
- trans-N2-(4-aminocyclohexyl)-1H-purine-2,6-diamine dihydrochloride;
- trans-N2-(4-aminocyclohexyl)-N6-[4-phenyl]-1H-purine-2,6-diamine dihydrochloride;
- trans-N2-(4-aminocyclohexyl)-N6-(4-fluorophenylmethyl)-1H-purine-2,6-diamine;
- trans-N2-(4-aminocyclohexyl)-N6-[1-(ethoxycarbonyl)-4-piperidinyl]-1H-purine-2,6-diamine;
- ethyl trans-3-[[2-[(4-aminocyclohexyl)amino]-9H-purin-6-yl]amino]benzoate;
- trans-N2-(4-aminocyclohexyl)-N6-(4-chlorophenyl)-9H-purine-2,6-diamine;
- trans-N2-(4-aminocyclohexyl)-N6-(3,4-dichlorophenyl)-9H-purine-2,6-diamine;
- butyl trans-4-[[2-[(4-aminocyclohexyl)amino]-9H-purin-6-yl]amino]benzoate;

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- 2-(diethylamino)ethyl trans-4-[[2-[(4-aminocyclohexyl)amino]-9H-purin-6-yl]amino]benzoate;
- trans-4-[[2-[(4-aminocyclohexyl)amino]-9H-purin-6-yl]amino]-N-phenylbenzamide;
- trans-N2-(4-aminocyclohexyl)-N6-[4-(dimethylamino)phenyl]-9H-purine-2,6-diamine;
- trans-4-[[2-[(4-aminocyclohexyl)amino]-9H-purin-6-yl]amino]benzaldehyde;
- trans-4-[[2-[(4-aminocyclohexyl)amino]-9H-purin-6-yl]amino]benzamide;
- ethyl 4-[[2-[(4-ethoxycarbonyl)phenyl]amino]-9H-purin-6-yl]amino]benzoate;
- ethyl 4-[[2-[(3-nitrophenyl)amino]-9H-purin-6-yl]amino]benzoate;
- ethyl 4-[[2-[(3-aminophenyl)amino]-9H-purin-6-yl]amino]benzoate;
- ethyl 4-[[2-[(4-dimethylamino)phenyl]amino]-9H-purin-6-yl]amino]benzoate;
- ethyl 4-[[2-(cyclohexylamino)-9H-purin-6-yl]amino]benzoate; and;
- ethyl 4-[[2-[(3-ethoxycarbonyl)phenyl]amino]-9H-purin-6-yl]amino]benzoate.

8. (Original) A compound of claim 7 selected from the group consisting of

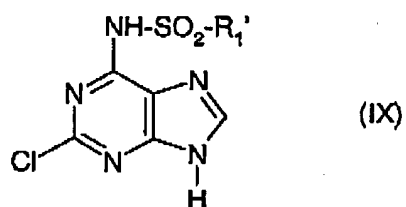
- ethyl trans-4-[[2-[(4-aminocyclohexyl)amino]-1H-purin-6-yl]amino]benzoate dihydrochloride;
- trans-N2-(4-aminocyclohexyl)-N6-[4-phenyl]-1H-purine-2,6-diamine dihydrochloride;
- ethyl trans-3-[[2-[(4-aminocyclohexyl)amino]-9H-purin-6-yl]amino]benzoate;
- trans-N2-(4-aminocyclohexyl)-N6-(3,4-dichlorophenyl)-9H-purine-2,6-diamine;
- butyl trans-4-[[2-[(4-aminocyclohexyl)amino]-9H-purin-6-yl]amino]benzoate;
- 2-(diethylamino)ethyl trans-4-[[2-[(4-aminocyclohexyl)amino]-9H-purin-6-yl]amino]benzoate; and;
- trans-4-[[2-[(4-aminocyclohexyl)amino]-9H-purin-6-yl]amino]-N-phenylbenzamide.

9 – 15 (Cancelled)

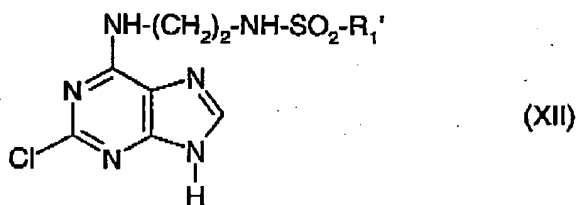
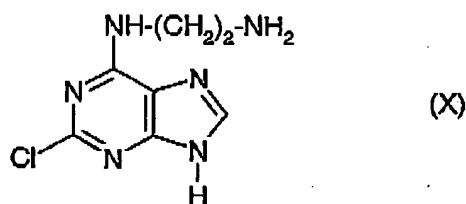
16. (Currently amended) An intermediate compound useful for the production of compounds of formula (I) as defined in claim 1, said intermediate being selected from the group consisting of the compounds of formulae (IX), (X), (XII), (XIII),  $M_1$ ,  $M_2$  and  $M_3$ .

Response dated August 4, 2005

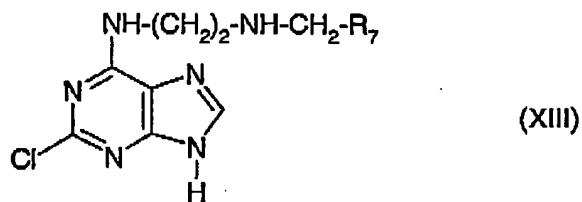
Reply to Office action mailed May 6, 2005



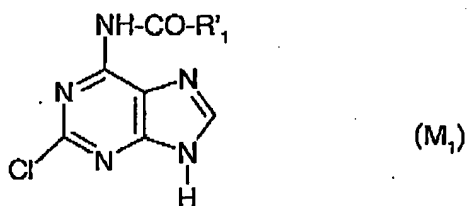
in which  $R_1'$  is selected from hydrogen, aryl,  $-\text{CH}_2\text{-aryl}$ , heterocyclic,  $-\text{CH}_2\text{-heterocyclic}$ , alkyl, and  $-\text{SO}_2\text{-alkyl}$ ;



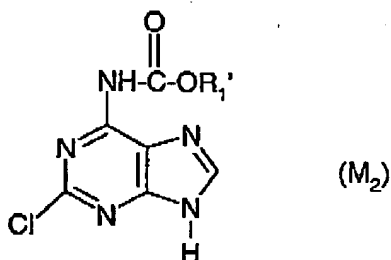
in which  $R_1'$  is selected from hydrogen, aryl,  $-\text{CH}_2\text{-aryl}$ , heterocyclic,  $-\text{CH}_2\text{-heterocyclic}$ , alkyl, and  $-\text{SO}_2\text{-alkyl}$ ;



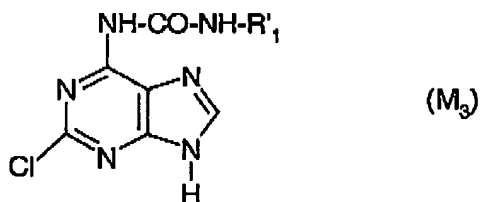
in which  $R_7$  is selected from aryl, heterocyclic and alkyl;



in which R<sub>1</sub>' is selected from hydrogen, aryl, -CH<sub>2</sub>-aryl, heterocyclic, -CH<sub>2</sub>-heterocyclic, alkyl, and -SO<sub>2</sub>-alkyl;



in which R<sub>1</sub>' is selected from hydrogen, aryl, -CH<sub>2</sub>-aryl, heterocyclic, -CH<sub>2</sub>-heterocyclic, alkyl, and -SO<sub>2</sub>-alkyl; and



in which R<sub>1</sub>' is selected from hydrogen, aryl, -CH<sub>2</sub>-aryl, heterocyclic, -CH<sub>2</sub>-heterocyclic, alkyl, and -SO<sub>2</sub>-alkyl.